

What is claimed is:

1. A data terminal device comprising:
a position data receiving part for receiving position data transmitted from an artificial satellite;
a wireless unit for transmitting and receiving data with respect to a base station;
a detailed map data memory part for storing detailed map data received by the wireless part;
scale determining part for determining the scale of the road map according to a plurality of position data received a plurality of times by the position data receiving part; and
a display part for displaying the road map of the scale determined by the scale determining part and detailed map data stored in the memory part.

2. The data terminal device according to claim 1, which further comprises a road map storing part for storing the road map in a plurality of different scales, and in which
the road map displayed on the display part is read out from the road map storing part.

3. The data terminal device according to claim 1, wherein road map data for displaying the road map is stored in the road map server connected to a network with the base station connected thereto, the wireless part receives, via the base station, the road map data stored in the road map server, and the road map is displayed based on the road map data received by the wireless part.

4. The data terminal device according to claim 1, wherein the scale determining part predicts a moving range capable of being covered in a predetermined time based on the position data received a plurality of times by the receiving part, the map scale being determined according to the predicted moving range capable of being covered.

5. The data terminal device according to claim 4, wherein the scale determining part computes the moving speed based on the position data received a plurality of times by the receiving part, the moving range capable of being covered being predicted according to the computed moving speed.

6. The data terminal device according to claim 5, wherein the scale determining part predicts, as the movable range capable of being covered, a range which can be covered up to next acquisition of position data or determination based on the obtained position data, by using the computed moving speed.

7. The data terminal device according to claim 4, wherein the wireless part receives only detailed map data of a necessary area based on the movable range capable of being covered as predicted by the scale determining part.

8. The data terminal device according to claim 1, wherein the map of the scale determined by the scale determining part and the detailed map data stored in the memory part are displayed

in superimposition on the each other on the display part.

9. The detailed terminal device according to claim 1, which further comprises a moving direction determining part for determining the moving direction based on the position data received a plurality of times by the wireless part; and in which the wireless part receives detailed map data only with respect to the moving direction determined by the moving direction determining part.

10. The data terminal unit according to claim 1, which further comprises a route determining part for executing route guide display by determining the route from the present position to a desired spot; and in which the wireless part receives detailed map data only in the neighborhood of the route determined by the path determining part.

11. The data terminal device according to claim 1, wherein the detailed map data are stored in a detailed map data server connected to a network with the base station connected thereto; and the wireless part receives, via the base station, detailed map data stored in the detailed map data server.